

WHAT IS CLAIMED IS;

~~1. A navigation display system for displaying a specified location with a map on display equipment, comprising~~

a map display domain setting means for setting up a display domain of a map a map memory for storing map data to be indicated on said display equipment,

a map display means for reading out the map of the display domain set by said map display domain setting means, from said map memory,

a retrieval condition setting means for setting up retrieval condition of the individual information to indicate with the map on said display equipment,

an individual information reception means for receiving dynamic information part of said individual information supplied from the outside, by retrieving it with the display domain output from said map display domain setting means and the retrieval condition output from said retrieval condition setting means, and for outputting said dynamic information part corresponding to specified location on the map,

an individual information memory for storing static information part of said individual information corresponding to said specified location on the map,

a receipt information analyses means for outputting said individual information combined with said dynamic part from said individual information reception means and said

an individual information display means for  
5 displaying said individual information from said receipt  
information analyses means on said display equipment.

10       said receipt information analyses means outputs at  
least one part of said individual information as an icon,  
and

15 3. A navigation display system as defined in claim 1,  
further comprising

20            said individual information display means displays  
at least one part of said individual information with an  
icon from said icon <sup>obtained</sup> setting means.

25            (said(special)location) is a car's position.

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a map display domain setting means to set a display domain of a map,

a map memory means to store a map data,

a map display means to read out and display said map data corresponding to a domain set by said map display domain setting means from said map memory means,

a retrieval range setting means to set a retrieval range including at least a retrieve object property in order to retrieve a needed information from retrieved objective data,

a data transmission means to transmit said retrieval range set by said retrieval range setting means,

a data receiver to receive data sent from outside, said data including at least one individual information retrieved according to said retrieval range transmitted by said data transmission means and an information relating to at least position on said map contained in said individual information,

a received data analysis means to discriminate said individual information contained in said data received by said data receiver,

an icon setting means to set an icon decided by said retrieve object property according to said every individual information discriminated by said received data analysis means,

an icon display position setting means to set a display position of said icon set by said icon setting

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means based on said information of said position on said map contained in said individual information and said map display domain set by said map display domain setting means according to said individual information discriminated by  
 5 said received data analysis means, and

an icon display means to display said icon set by said icon setting means according to said every individual information discriminated by received data analysis means, on the map displayed by said map display means, at said  
 10 position set by said icon display position setting means, whereby

said information display system characterized by displaying said icon on said map corresponding to said individual information retrieved in a range of said set  
 15 retrieval range.

6. An information display system as defined in claim 5, further comprising:

*a*  
*a* ~~an~~ icon property setting means for changing a display form of said icon set by said icon setting means, according to said icon property information contained in said individual information sent from the outside, wherein

*20*  
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*a* said icon display means <sup>displays</sup> ~~displaying~~ said icon set by the icon setting means, corresponding to said individual  
 25 information discriminated by said received data analysis means, on the map displayed by said map display means, at said position set by said icon display position setting

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an icon store means to store plurality of said icons,

*whereby*  
~~thereby~~

*a*  
*a* said icon set by said icon setting means *may be* ~~are~~  
 selectively provided from said icon store means.

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 5 10. An information display system as defined in claim 5  
 or 6, wherein

*a* said individual information sent from outside  
 contains ~~an~~ another icon ~~furthermore~~ and said icon setting  
 means sets said another icon contained in said individual  
 10 information.

*Sub fact*  
 11. An information display system as defined in claim 10,  
 further comprising an icon store means to store plurality  
 of said icons, and

15 an icon presence judgment means to judge presence of  
 a needed icon in said icon store means and to provide an  
 icon request command to said data transmission means when  
 said needed icon does not present, thereby an icon  
 transmission request is transmitted using said data  
 20 transmission means when said icon presence judgment means  
 judges no presence of said needed icon.

12. An information display system as defined in claim 5  
 or 6, further comprising

25 an icon overlap judgment means to judge overlap  
 between said icons from size of an icon and position of  
 said icon set by said icon display position setting means,

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and to generate a resetting command to said icon display position setting means, said map display domain setting means or said icon property setting means when said icons are overlapped, thereby

5       when said overlap between said icons is judged by said icon overlap judgment means, said display position of said icon is changed by said icon overlap judgment means, said map display domain is changed by said map display domain setting means, or said size of said icon is changed  
10 by said icon property setting means, so that said overlap between said icons is controlled to be less than half of said size of said icon.

13.     An information display system, comprising  
15       a data receiver to receive data sent from outside, said data including at least one individual information containing an icon information capable to at least set icon,  
      a received data analysis means for discriminating said individual information contained in the data received  
20 by said data receiver,

      an icon setting means to set said icon according to said icon information contained in said every individual information discriminated by said received data analysis means,

25       an icon display position setting means to set a display position of said icon set by said icon setting means based on said individual information discriminated by

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an icon display means to display said icon set by  
said icon setting means according to said every individual  
information discriminated by received data analysis means,  
at said position set by said icon display position setting  
means,

an icon select means capable to select one of said icons displayed by said icon display means, and

25 14. An information display system as defined in claim 13,  
further comprising

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a map display means to read out said map said domain set by said map display domain setting means from said map memory means, wherein

10 said individual information sent from outside  
contains information relating to said position on said map  
furthermore, and said icon display position setting means  
sets said position to display said icon set by said icon  
15 setting means based on information about said position on  
said map contained by said individual information, and  
display domain of said map set by said map display domain  
setting means, according to the every individual  
information discriminated by said received data analysis  
20 means, thereby

when said icon is selected, an information about said individual information is displayed corresponding to said icon.

20 15. An information display system as defined in claim 13  
or 14, wherein said individual information sent from  
outside contains added information ~~furthermore,;~~

said detailed data display means displays said added  
information contained in said individual information  
corresponding to <sup>a</sup> ~~said~~ selected icon, and

when said icon is selected, ~~said information about~~  
said individual information is retrieved from said received

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a map memory means to store a map data,

10 domain setting means from said map memory means,

15           a data transmission means to transmit said retrieval  
range set by said retrieval range setting means,

a received data analysis means to discriminate said individual information contained in said data received by said data receiver,

an icon setting means to set an icon decided by said  
retrieve object property according to said every individual

an icon property setting means to change a display form of said icon set by said icon setting means according to an icon property information contained in said individual information,

an icon display position setting means to set a display position of said icon set by said icon setting means based on said information of said position on said map contained in said individual information and said map display domain set by said map display domain setting means according to said individual information discriminated by said received data analysis means,

an icon display means to display said icon set by  
15 said icon setting means according to said every individual  
information discriminated by received data analysis means,  
on the map displayed by said map display means, at said  
position set by said icon display position setting means,

20 a received data / position memory means to  
respectively store said individual information  
discriminated by said received data analysis means, with  
said display position of said icon set by said icon display  
position setting means,

an icon select means capable to select one of said  
25 icons displayed by said icon display means,

an inside data store means store said detailed data,

an inside data retrieval means to retrieve said

information related to said individual information corresponding to said icon selected by said icon select means from said inside data store means, and

5 a detailed data display means to display said detailed information retrieved by said inside data search means, whereby

10 said icon is displayed on said map corresponding to said individual information retrieved in a range of said retrieval range set by said retrieval range setting means so as to be capable of being selected said icon, and when said icon is selected, said detailed information is displayed relating to said individual information corresponding to said selected icon stored beforehand in said inside data store means.

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19. An information display system as defined in claim 18, further comprising:

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a select icon emphasis means to emphasize said icon selected with said icon select means by changing a display form of said icon which is displayed, and whereby

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a said icon selected by said icon select means is displayed <sup>so as</sup> to be easily distinguished from said icon which is not selected.

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20. An information display system as defined in claim 18 or 19, further comprising

a detailed information display domain setting means

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to set a display domain of said detailed information taken out by said inside data retrieval means,

a display configuration change means to change configuration on a screen of the display when said icon is selected by said icon select means or said detailed data display means finishes to display said detailed information, thereby said display configuration on the screen is changed when said detailed information relating to said individual information selected by said icon select means is displayed and said map displaying said icon selected by said icon select means and said detailed information are displayed on the same screen.

21. An information display system as defined in claim 18 or 19, further comprising:

a detailed data display domain calculation means to calculate a display domain of ~~said~~ detailed data taken out by said inside data retrieval means from said display position of said selected icon obtained by said received data / position memory means, wherein

when said detailed information relating to said individual information selected by said icon select means is displayed, a map displaying said icon selected by said icon select means and said detailed information are displayed on <sup>the</sup> a same screen by displaying said detailed information at a domain that <sup>does not</sup> ~~doesn't~~ cover said selected icon.

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22. An information display system, comprising  
 an individual information receiver to obtain data  
 transmitted from information offering servers connected  
 through a network,

an information memory means to store an information  
 provided by said individual information receiver,

an individual information updating means to store  
 said information provided by said individual information  
 receiver in said information memory means,

a data receiver to receive a retrieval range of said  
 individual information, a data retrieval means to retrieve  
 data stored in said information memory means according to  
 said retrieval range of said individual information  
 provided by said data receiver,

a data processing means to process one or more said  
 individual information taken out by said data retrieval  
 means, a data transmission means to transmit a retrieved  
 result of said data retrieval means processed by said data  
 processing means mentioned above, thereby said individual  
 information provided from said information offering servers  
 on a said network is obtained and is stored, and

an information conforming to said retrieval range is  
 retrieved from said stored individual information and is  
 transmitted.

23. An information display system as defined in claim 22,

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wherein ~~characterized in that~~

said information sent from said information offering servers connected ~~to~~ through said network contains ~~different~~ information <sup>which changes over time</sup> ~~whenever~~ being sent, and said individual information stored in said information memory means is renewed by using said ~~latest~~ information sent from the information offering server.

24. An information display system as defined in claim 22 or 23, wherein characterized by further comprising

a server information store means memorizing kind of said information, address, and access method offered by said information offering servers according to said respective information offering servers,

a retrieval object server setting means to set a server to offer said individual information from said information offering servers registered in said server information store means, and

an individual information request means to request offering of said information by accessing said information offering servers set by said retrieval object server setting means, thereby

a latest information is obtained by accessing said information offering servers and said individual information is renewed by storing said latest information in said information store means.

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whenever time set beforehand passes, said individual information request means obtains said latest information by accessing said information offering servers, and said individual information is renewed by storing the latest information in said information memory means.

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a conventional format setting means to set a format to be stored in said information memory means, and

a selected object data setting means to limit property of said data stored in said information memory means, whereby

an icon property setting means to change a display form of said icon set by said icon setting means based on

said icon property information contained in said individual information,

an icon drawing position setting means to set a display position of said icon set by said icon setting means from said information about said position on said map contained in said individual information and said display domain of said map set by said map display domain setting means according to said individual information discriminated from by said received data analysis means,

an icon display means to display said individual information discriminated from by said received data analysis means and said icon set by said icon setting means at said position set by said icon drawing position setting means on the map displayed by said map display means,

a received data / position memory means to respectively store said individual information discriminated by said received data analysis means, with said display position of said icon set by said icon display position setting means,

an icon select means capable to select one of said icons displayed by said icon display means,

an inside data store means store said detailed data,

an inside data retrieval means to retrieve said information related to said individual information corresponding to said icon selected by said icon select means from said inside data store means,

a detailed data display means to display a detailed

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information retrieved by said inside data retrieval means,  
and

an information offering equipment comprising;

an individual information receiver to obtain data  
5 transmitted from information offering servers connected  
through a network, an information memory means to store an  
information provided by said individual information  
receiver,

an individual information updating means to store  
10 said information provided by said individual information  
receiver in said information memory means,

a data receiver to receive a retrieval range of said  
individual information,

a data retrieval means to retrieve data stored in  
15 said information memory means according to said retrieval  
range of said individual information provided by said data  
receiver,

a data processing means to process one or more said  
individual information taken out by said data retrieval  
20 means, and

a data transmission means to transmit a retrieved  
result of said data retrieval means processed by said data  
processing means mentioned above, and

a communication means to receive a said data  
25 transmitted from said information offering equipment with  
said information display system mentioned, whereby

a necessary information is retrieved based on a

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latest individual information provided by said information offering server, said provided individual information is displayed on said map, and said latest individual information is simply displayed with a little communication 5 complexity by storing said detailed information related to said individual information in said information display system.

Add B'1

Add C'1

Add G'2

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